



PATENT
ATTORNEY DOCKET NO. 046124-5244

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Tadataka EDAMURA) Confirmation No.: 8141
)
Application No.: 10/701,533) Group Art Unit: 2826
)
Filed: 11/06/03) Examiner: Mandala, Victor A.

Title: Semiconductor photocathode and
photoelectric tube using the same

Commissioner for Patents
Alexandria, VA 22314

Sir:

**SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY
AND GRANT OF NEW POWER OF ATTORNEY**

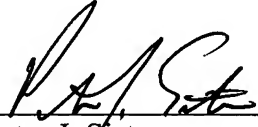
Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New
Power of Attorney by the Assignee.

If there is any fee due in connection with the filing of this paper, please charge the fee to
our Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: August 5, 2005

By: 
Peter J. Sistare
Registration No. 48,183

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignee: HAMAMATSU PHOTONICS K.K.

Commissioner for Patents
Washington, D.C. 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), HAMAMATSU PHOTONICS K.K., a Japanese corporation, certifies that it is the assignee of 100% of the right, title and interest in the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) to HAMAMATSU PHOTONICS K.K. submitted to the U.S. Patent and Trademark Office. The dates on which the assignments were submitted and the reel/frame numbers at which the assignments were recorded are indicated in the chart below.

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
03/20/02	046124-5121	10/088,631			03/20/02; 012800/0817
08/08/02	046124-5123	10/214,332	6,747,277	06/08/04	08/08/02; 013188/0905
06/28/02	046124-5124	10/183,160			06/28/02; 013063/0060
04/09/02	046124-5125	10/118,331			07/29/02; 013141/0580
04/26/02	046124-5126	10/132,736	6,639,969	10/28/03	07/19/02; 013113/0396
04/29/02	046124-5127	10/111,802	6,600,809	07/29/03	04/29/02; 013017/0801
05/10/02	046124-5129	10/129,729	6,891,612	05/10/05	05/10/02; 013097/0601
05/09/02	046124-5130	10/141,338	6,757,106	06/29/04	08/13/02; 015049/0901
05/10/02	046124-5132	10/129,733	6,774,370	08/10/04	05/10/02; 013118/0214
05/08/02	046124-5133	10/140,432	6,801,369	10/05/04	07/25/02; 013129/0470
07/19/04	046124-5133-01	10/893,218			07/25/02; 013129/0470
05/17/02	046124-5134	10/147,307	6,700,110	03/02/04	08/16/02; 013200/0969
06/21/02	046124-5137	10/176,191	6,723,994	04/20/04	06/21/02; 013038/0946
07/10/02	046124-5138	10/169,861			07/10/02; 013308/0488
07/12/02	046124-5139	10/169,990	6,867,418	03/15/05	07/12/02; 013264/0935
07/12/02	046124-5140	10/169,991	6,891,164	05/10/05	07/12/02; 013308/0548
07/17/02	046124-5141	10/181,360	6,670,752	12/30/03	07/17/02; 013292/0001
07/18/02	046124-5142	10/181,376	6,710,292	03/23/04	07/18/02; 013321/0158

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
09/04/02	046124-5143	10/181,557	6,897,964	05/24/05	09/04/02; 013361/0666
08/02/02	046124-5144	10/182,818	6,687,521	02/03/04	08/02/02; 013308/0222
08/06/02	046124-5145	10/203,161			08/06/02; 013354/0187
08/13/02	046124-5146	10/203,760			08/13/02; 013374/0467
08/20/02	046124-5147	10/223,378			08/20/02; 013220/0234
09/09/02	046124-5152	10/237,090			09/09/02; 013277/0111
09/20/02	046124-5154	10/239,245			09/20/02; 013489/0472
10/09/02	046124-5155	10/266,690	6,703,598	03/09/04	10/09/02; 013375/0688
10/07/02	046124-5157	10/257,004	6,876,722	04/05/05	10/07/02; 013902/0304
12/23/04	046124-5157-01	11/020,038			10/07/02; 013902/0304
10/11/02	046124-5158	10/257,440	6,819,422	11/16/04	10/11/02; 013407/0697
10/18/02	046124-5159	10/258,061	6,649,142	11/18/03	10/18/02; 013795/0503
10/25/02	046124-5160	10/280,068	6,808,523	10/26/04	10/25/02; 013431/0963
10/24/02	046124-5161	10/258,450			10/29/02; 013734/0601
11/14/02	046124-5162	10/276,221			11/14/02; 013768/0773
11/21/02	046124-5163	10/276,975	6,858,849	02/22/05	11/21/02; 013817/0102
11/01/02	046124-5164	10/275,136	6,768,552	07/27/04	11/01/02; 013841/0670
06/09/03	046124-5167	10/275,731			06/09/03; 014331/0080
11/18/02	046124-5168	10/276,725	6,833,548	12/21/04	11/18/02; 013817/0265
11/18/02	046124-5169	10/276,726			11/18/02; 013817/0267
06/02/03	046124-5171	10/296,504	6,885,134	04/26/05	06/02/03; 014381/0927
11/25/02	046124-5172	10/296,509			11/25/02; 013953/0245
03/07/03	046124-5175	10/383,252			06/23/03; 014203/0118
09/24/03	046124-5178	10/668,605	6,853,046	02/08/05	02/17/04; 014997/0439
12/24/02	046124-5182	10/327,614			03/27/03; 013909/0950
01/06/03	046124-5184	10/336,782			01/06/03; 013650/0511
01/27/03	046124-5185	10/343,016	6,670,903	12/30/03	01/27/03; 014522/0290
01/27/03	046124-5186	10/343,017			01/27/03; 014010/0998
01/30/03	046124-5187	10/343,235			01/30/03; 013921/0726
02/22/05	046124-5187-01	11/061,596			01/30/03; 013921/0726
08/08/03	046124-5188	10/637,040			01/12/04; 014883/0607
05/21/03	046124-5190	10/343,438			05/21/03; 014132/0857
06/12/03	046124-5191	10/343,428			06/12/03; 014298/0702
01/31/03	046124-5192	10/343,427			01/31/03; 014104/0056

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
02/19/03	046124-5197	10/344,850			02/19/03; 013996/0944
03/04/03	046124-5199	10/363,656			03/04/03; 014133/0453
03/10/03	046124-5201	10/363,906			03/10/03; 014041/0688
03/12/03	046124-5202	10/385,696			07/08/03; 014252/0162
04/08/05	046124-5202-01	11/101,543			07/08/03; 014252/0162
04/15/05	046124-5202-02	11/106,645			07/08/03; 014252/0162
04/15/05	046124-5202-03	11/106,648			07/08/03; 014252/0162
04/15/05	046124-5202-04	11/106,644			07/08/03; 014252/0162
04/15/05	046124-5202-05	11/106,657			07/08/03; 014252/0162
04/15/05	046124-5202-06	11/106,643			07/08/03; 014252/0162
04/21/03	046124-5206	10/399,714			04/21/03; 014298/0772
05/21/03	046124-5207	10/442,109			05/21/03; 014104/0559
05/08/03	046124-5208	10/416,199			05/09/03; 014526/0239
05/14/03	046124-5210	10/416,703	6,831,341	12/14/04	05/14/03; 014452/0605
05/14/03	046124-5211	10/416,656			05/14/03; 014434/0171
05/13/03	046124-5212	10/416,698	6,870,317	03/22/05	05/13/03; 014472/0204
05/13/03	046124-5213	10/416,546	6,873,107	03/29/05	05/13/03; 014451/0851
11/17/03	046124-5222	10/433,060			11/17/03; 014714/0699
06/09/03	046124-5224	10/433,946			06/09/03; 014584/0069
06/12/03	046124-5225	10/459,702	6,880,985	04/19/05	09/30/03; 014552/0292
07/28/03	046124-5228	10/470,380			07/28/03; 014894/0250
08/26/03	046124-5231	10/469,034			08/26/03; 014882/0308
09/08/03	046124-5232	10/471,015			09/08/03; 014937/0642
09/25/03	046124-5233	10/472,920			09/25/03; 014941/0907
09/16/03	046124-5234	10/471,737			09/16/03; 015040/0102
07/23/04	046124-5241	10/474,716			07/23/04; 015636/0524
11/06/03	046124-5243	10/476,937			11/06/03; 015130/0232
11/06/03	046124-5244	10/701,533			11/06/03; 014678/0841
11/05/03	046124-5245	10/476,868			11/05/03; 015130/0733
11/07/03	046124-5246	10/476,989			11/07/03; 015113/0206
11/05/03	046124-5247	10/476,866			11/05/03; 015132/0502
11/07/03	046124-5248	10/703,160	6,818,885	11/16/04	03/31/04; 015168/0976 08/10/04; 015666/0919
11/12/03	046124-5249	10/704,695			11/12/03; 014694/0388
11/13/03	046124-5250	10/705,901			11/13/03; 014700/0301

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
02/11/05	046124-5250-01	11/055,663			11/13/03; 014700/0301
11/21/03	046124-5253	10/717,904			03/24/04; 015128/0519
07/01/04	046124-5255	10/479,241			07/01/04; 015733/0005
05/19/04	046124-5257	10/479,040			05/19/04; 015445/0683
12/12/03	046124-5259	10/480,459			12/12/03; 015305/0246
07/26/04	046124-5261	10/482,767			07/26/04; 015675/0394
01/09/04	046124-5265	10/753,569			01/09/04; 014888/0908
01/09/04	046124-5266	10/483,249			01/09/04; 015305/0825
01/21/04	046124-5267	10/484,450			01/21/04; 015326/0291
01/30/04	046124-5268	10/485,301			01/30/04; 015445/0143
01/29/04	046124-5269	10/766,311			08/19/01; 015694/0101
02/05/04	046124-5270	10/771,462			02/05/04; 014967/0577
02/12/04	046124-5271	10/776,615			02/12/04; 014987/0017
02/23/04	046124-5272	10/487,145			02/23/04; 015549/0763
02/23/04	046124-5273	10/487,417			02/23/04; 015507/0022
02/26/04	046124-5277	10/786,619			07/16/04; 015568/0303
02/27/04	046124-5278	10/787,826			07/12/04; 015555/0669
03/19/04	046124-5281	10/804,195			07/23/04; 015604/0200
03/26/04	046124-5284	10/490,980			03/26/04; 015714/0314
04/01/04	046124-5286	10/491,414			04/01/04; 015673/0865
04/09/04	046124-5287	10/821,272			04/09/04; 015202/0387
04/14/04	046124-5288	10/492,518	6,901,031	05/31/05	04/14/04; 015529/0647
04/22/04	046124-5292	10/829,385			08/27/04; 015731/0453
04/29/04	046124-5295	10/494,206			04/29/04; 015802/0709
04/30/04	046124-5296	10/835,570			04/30/04; 015290/0512
05/27/04	046124-5300	10/854,628			05/27/04; 015393/0460
06/30/04	046124-5304	10/880,100			06/30/04; 015534/0530
06/29/04	046124-5306	10/878,527			06/29/04; 015525/0132
06/29/04	046124-5307	10/878,547			06/29/04; 015525/0736
07/27/04	046124-5310	10/899,138			07/27/04; 015630/0303
09/23/04	046124-5321	10/947,354			09/23/04; 015831/0765
04/05/02	046124-5122	10/089,866			04/05/02; 013017/0761
08/27/02	046124-5148	10/204,916	6,812,790	11/02/04	08/27/02; 013420/0568
02/04/05	046124-5139-01	11/049,666			07/12/02; 013264/0935

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
09/22/03	046124-5235	10/472,142			09/22/03; 014936/0385
08/29/02	046124-5150	10/220,352			08/29/02; 013415/0538
01/28/00	046124-5018	09/463,594	6,219,483	04/17/01	02/08/00; 010634/0161
03/31/00	046124-5019	09/509,767	6,280,059	08/28/01	03/31/00; 010784/0964
03/13/00	046124-5021	09/524,393	6,448,546	09/10/02	06/22/00; 010875/0251
12/18/00	046124-5052	09/737,817	6,429,430	08/06/02	03/14/01; 011588/0451
12/18/00	046124-5056	09/739,425	6,469,305	10/22/02	05/25/01; 011843/0052
12/28/00	046124-5059	09/749,736	6,459,109	10/01/02	12/28/00; 011411/0769
01/30/01	046124-5066	09/771,721	6,385,294	05/07/02	01/30/01; 011750/0595
11/21/02	046124-5166	10/276,979	6,897,953	05/24/05	11/21/02; 013968/0137
10/12/04	046124-5210-01	10/961,142			05/14/03; 014452/0605
06/10/04	046124-5301	10/864,797			06/10/04; 015457/0732
08/05/04	046124-5308	10/911,471			08/05/04; 015664/0133
05/24/01	046124-5076	09/863,292	6,411,374	06/25/02	05/24/01; 011848/0966
06/01/01	046124-5080	09/870,642	6,455,837	09/24/02	06/01/01; 011879/0015
08/18/99	046124-5008	09/297,680	6,265,812	07/24/01	08/18/99; 010169/0223
07/23/99	046124-5009	09/355,102	6,314,759	11/13/01	07/23/99; 010176/0411
10/28/99	046124-5011	09/403,868	6,339,279	01/15/02	10/28/99; 010458/0478
10/28/99	046124-5012	09/403,933	6,339,280	01/15/02	10/28/99; 010517/0464
01/28/00	046124-5016	09/463,631	6,399,938	06/04/02	01/28/00; 010603/0383
06/23/00	046124-5032	09/602,899	6,380,663	04/30/02	06/23/00; 010896/0553
07/26/00	046124-5033	09/625,953	6,384,396	05/07/02	07/26/00; 010973/0722
07/28/00	046124-5036	09/628,446	6,392,282	05/21/02	07/28/00; 010988/0907
08/04/00	046124-5037	09/633,159	6,381,305	04/30/02	08/04/00; 010994/0560
11/21/00	046124-5050	09/716,264	6,335,792	01/01/02	11/21/00; 011686/0549
08/15/01	046124-5090	09/929,490	6,635,877	10/21/03	08/15/01; 012101/0591
10/26/01	046124-5102	09/983,922	6,757,627	06/29/04	10/26/01; 012290/0792
10/26/01	046124-5104	09/984,028	6,637,913	10/28/03	01/11/02; 012472/0958
05/07/02	046124-5109	10/139,357	RE 38,234	08/26/03	09/25/97; 008826/0198
03/06/02	046124-5118	10/070,383	6,712,777	03/30/04	03/06/02; 012858/0229
03/18/02	046124-5120	10/098,317	6,707,021	03/16/04	03/18/02; 012724/0850
04/26/02	046124-5126	10/132,736	6,639,969	10/28/03	07/19/02; 013113/0396
05/09/02	046124-5130	10/141,338	6,757,106	06/29/04	08/13/02; 015049/0901
05/10/02	046124-5132	10/129,733	6,774,370	08/10/04	05/10/02; 013118/0214

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
05/17/02	046124-5134	10/147,307	6,700,110	03/02/04	08/16/02; 013200/0969
06/21/02	046124-5137	10/176,191	6,723,994	04/20/04	06/21/02; 013038/0946
07/18/02	046124-5142	10/181,376	6,710,292	03/23/04	07/18/02; 013321/0158
08/02/02	046124-5144	10/182,818	6,687,521	02/03/04	08/02/02; 013308/0222
10/09/02	046124-5155	10/266,690	6,703,598	03/09/04	10/09/02; 013375/0688
10/25/02	046124-5160	10/280,068	6,808,523	10/26/04	10/25/02; 013431/0963
11/01/02	046124-5164	10/275,136	6,768,552	07/27/04	11/01/02; 013841/0670
01/06/03	046124-5062-01	10/336,921	6,735,282	05/11/04	01/08/01; 011434/0843
05/25/00	046124-5027	09/577,622	6,765,609	07/20/04	05/25/00; 010824/0684
10/24/00	046124-5047	09/694,313	6,628,874	09/30/03	10/24/00; 011253/0926
02/02/01	046124-5064	09/773,510	6,804,275	10/12/04	02/02/01; 011547/0621
05/04/01	046124-5074	09/848,252	6,704,110	03/09/04	05/04/01; 011776/0059
06/22/01	046124-5078	09/886,110	6,724,062	04/20/04	06/22/01; 011928/0906
06/05/01	046124-5082	09/873,352	6,674,083	01/06/04	11/14/01; 012307/0461
06/13/01	046124-5084	09/879,062	6,781,131	08/24/04	06/13/01; 011900/0344
07/30/01	046124-5087	09/916,281	6,606,123	08/12/03	07/30/01; 012034/0128
04/27/01	046124-5063	09/842,831	6,563,264	05/13/03	04/27/01; 011761/0452
03/19/04	046124-5283	10/804,193			07/29/04; 015640/0537

The undersigned has reviewed all documents in the chain of title of the patent applications and patents identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

Acting on behalf of the assignee, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

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 DRINKER BIDDLE & REATH LLP
 One Logan Square
 18th and Cherry Streets
 Philadelphia, PA 19103-6996

with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.


All correspondence regarding these applications should be sent to JOHN SMITH at:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patents, applications or any patents issued on the applications.

Respectfully submitted,

Date: July, 6, 2005


(Signature) Akira UTSUYAMA
Title: Group Manager
Technology & Information
Management Division
Patent Group

HAMAMATSU PHOTONICS K.K.



17w

PATENT
ATTORNEY DOCKET NO. 046124-5244

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Tadataka EDAMURA) Confirmation No.: 8141
Application No.: 10/701,533) Group Art Unit: 2826
Filed: 11/06/03) Examiner: Mandala, Victor A.

Title: Semiconductor photocathode and
photoelectric tube using the same

Commissioner for Patents
U.S. Patent and Trademark Office
Alexandria, VA 22314

Sir:

CHANGE OF CORRESPONDENCE ADDRESS

Please enter the correspondence address of this application as:

Customer Number 55694

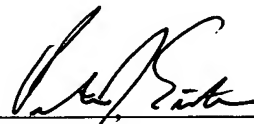
A new power of attorney appointing the undersigned is being filed concurrently herewith.
If there is any fee due in connection with the filing of this paper, please charge the fee to our
Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: August 5, 2005

By:


Peter J. Sistare
Registration No. 48,183

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